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INDEX OF SHEETS

SHEET No.

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- ALTERNATIVE 5

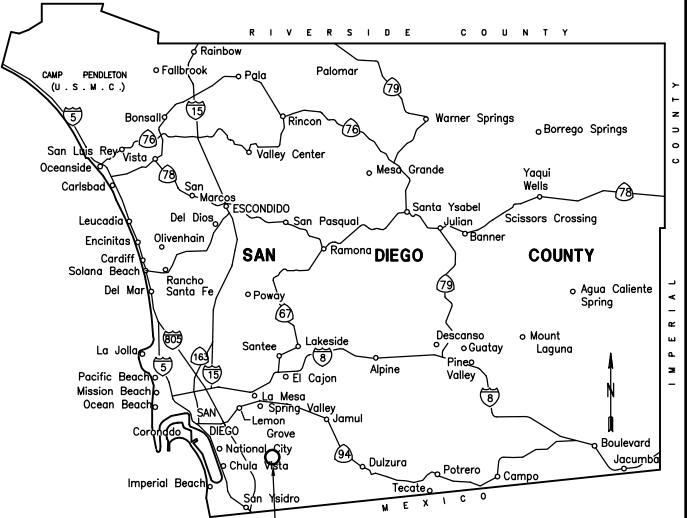
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FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

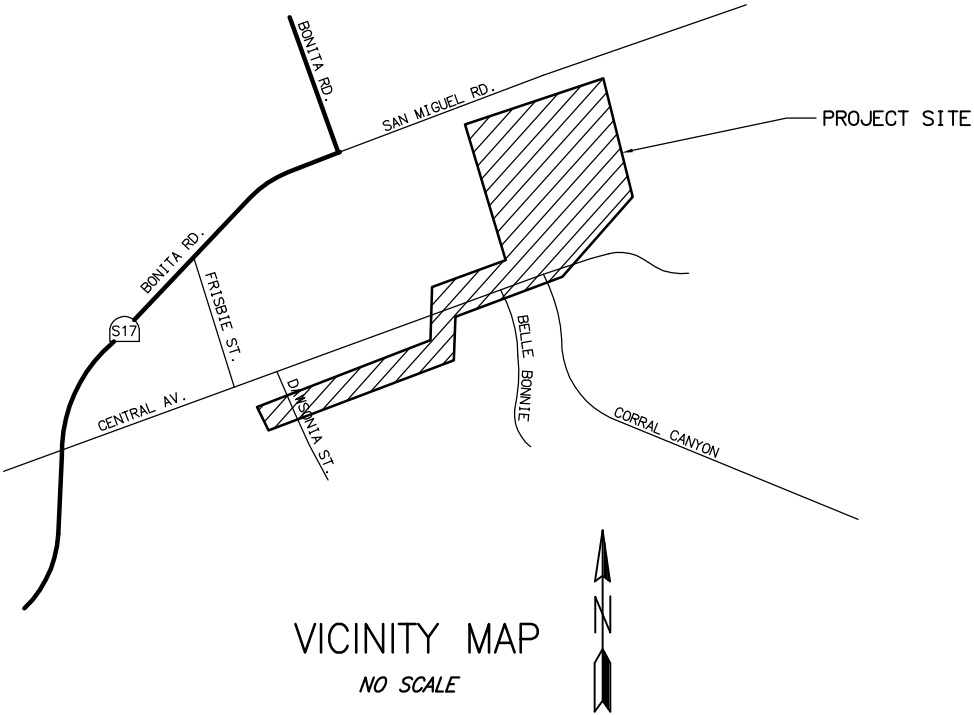
PLANS	BY	DATE
DESIGNED		
CHECKED		
DELINEATED		

COUNTY OF SAN DIEGO, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

PRELIMINARY
ENGINEERING STUDY OF
CENTRAL AVENUE CHANNEL
IMPROVEMENTS
In The Vicinity of Bonita



PROJECT LOCATION



GENERAL NOTES:

ATTENTION IS DIRECTED TO THE POSSIBLE EXISTENCE OF UNDERGROUND UTILITY FACILITIES NOT KNOWN OR IN A LOCATION DIFFERENT FROM THAT WHICH IS SHOWN ON THE PLANS OR IN THE SPECIAL PROVISIONS. THE CONTRACTOR SHALL TAKE STEPS TO ASCERTAIN THE EXACT LOCATION OF ALL UNDERGROUND FACILITIES PRIOR TO PERFORMING WORK THAT MAY DAMAGE SUCH FACILITIES OR INTERFERE WITH THEIR SERVICE. FORTY-EIGHT HOURS BEFORE EXCAVATING, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND FACILITIES BY CONTACTING UNDERGROUND SERVICE ALERT AT TELEPHONE 1-800-422-4133.

OPERATORS OF GRAVITY SEWER SYSTEMS AND CERTAIN OTHER UTILITIES, WHO ARE NOT MEMBERS OF UNDERGROUND SERVICE ALERT, MUST BE INDIVIDUALLY CONTACTED.



ENGINEER OF WORK

JAMES R. HAUGHEY, R.C.E. 51546 DATE
EXP. 6-30-06



PLANNING ■ DESIGN ■ CONSTRUCTION

9755 CLAREMONT MESA BOULEVARD, SUITE 100
SAN DIEGO, CALIFORNIA 92124-1324
858.614.5000 • FAX 858.614.5001 • www.RBF.com

COUNTY OF SAN DIEGO
DEPARTMENT OF PUBLIC WORKS
5555 OVERLAND AVENUE, SAN DIEGO, CA 92123-1295



RECOMMENDED BY:	DATE
APPROVED BY:	DATE

DONALD M. SIBELL, COUNTY ENGINEER R.C.E. 18634 (EXPIRES 6-30-07)

REVISIONS	BY	APPROVED	DATE

COORDINATE INDEX
N. E.
CONST. COMPL.
FIELD REVISIONS

CENTRAL AVENUE CHANNEL IMPROVEMENTS
TITLE SHEET
PRELIMINARY ENGINEERING REPORT

SCALE: HOR. NONE VERT. NONE
W.A. UJ1973 R.S.
FILE NO.
SHEET 1 OF 6 SHEETS

-1 0 1 2 3 4 5 6 7 8 9 10

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

PLANS	BY	DATE
DESIGNED		
CHECKED		
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PRELIMINARY ENGINEERING REPORT
For
Central Avenue Channel Improvements
San Diego County, California
Central Ave. Creek Flood Protection

Legend

- Property Lot Lines
- Existing Creek Flow line



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RECOMMENDED BY:	DATE
APPROVED BY:	DATE
DOUGLAS M. ISBELL, COUNTY ENGINEER R.C.E. 18634 (EXPIRES 6-30-01)	

REVISIONS	BY	APPROVED	DATE

COORDINATE INDEX
N. E.
CONST. COMPL.
FIELD REVISIONS

CENTRAL AVENUE CHANNEL IMPROVEMENTS
PRELIMINARY ENGINEERING REPORT
EXISTING CONDITIONS

SCALE: HOR.	VERT.
W.A. UJ1973	R.S.
FILE NO.	
SHEET 2 OF 6 SHEETS	

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PLANS	BY	DATE
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DELINEATED		

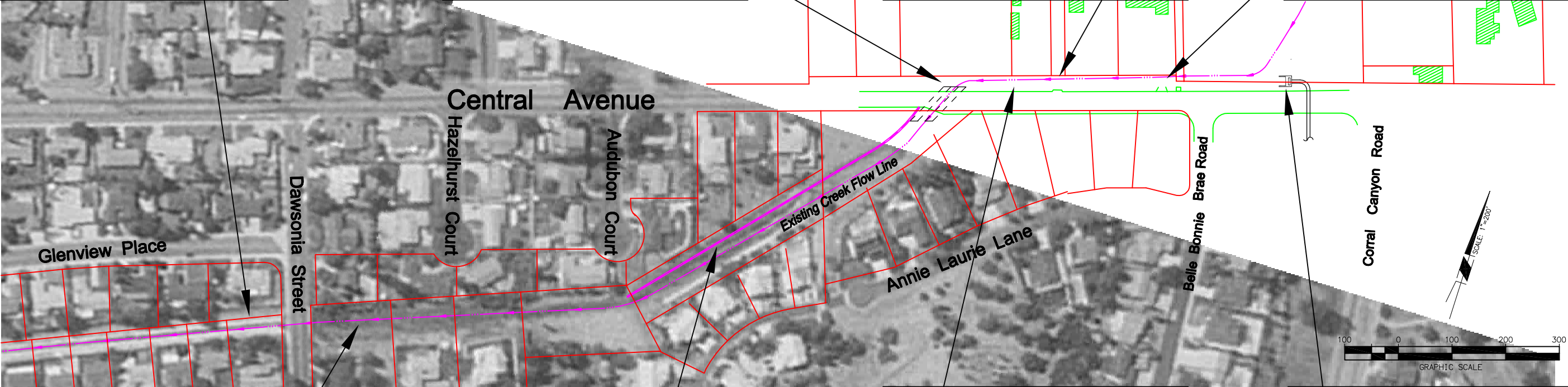
Drainage Channel west of Dawsonia Street



Existing 5x10 Box Culverts



Bridge Replacement on Drainage Channel. Bridge Replacements on Drainage Channel.



Drainage Channel East of Dawsonia Street



Drainage Channel South of Central Ave.



Existing Drainage Channel on north side of Central Avenue



Existing 66" RCP Extension



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DOUGLAS M. EISEL, COUNTY ENGINEER R.C.E. 18634 (EXPIRES 6-30-01)	

REVISIONS	BY	APPROVED	DATE

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CENTRAL AVENUE CHANNEL IMPROVEMENTS
PHOTO EXHIBIT
PRELIMINARY ENGINEERING REPORT

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SCALE: HOR.	VERT.
W.A. UJ1973	R.S.
FILE NO.	SHEET 3 OF 6 SHEETS

PLANS	BY	DATE
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CHECKED		
DELINEATED		



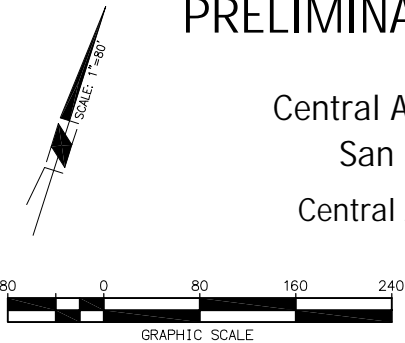
Alternative 1

Q=3,650 cfs

1. 5 - 5' x 12' RCB Culverts
Road Construction
Traffic Control
Temp. Detour Road
2. 55' Base Width Drainage Channel
Hydroseed
Channel Grading
Channel Matting
Rip-Rap
Water Lateral Replacements
Building Relocation
3. 3 - 104' Bridge Replacements
4. Parapet Wall (south of Central Ave.)
5. 2 - Concrete Channel Transitions


Legend

- Property Lot Lines
- Existing Creek Flow line



PRELIMINARY ENGINEERING REPORT

For
Central Avenue Channel Improvements
San Diego County, California
Central Ave. Creek Flood Protection



PLANNING ■ DESIGN ■ CONSTRUCTION

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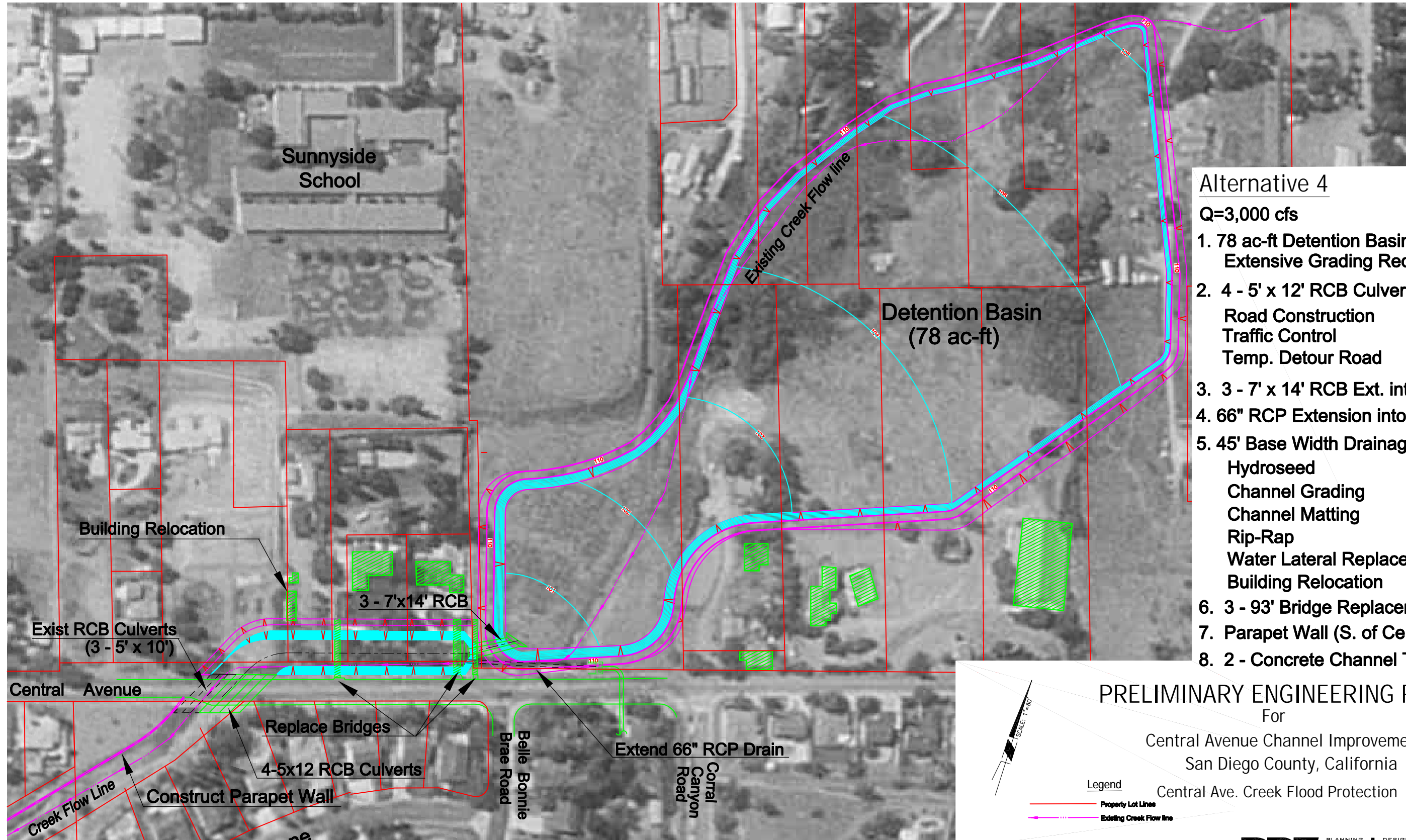
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APPROVED BY:	DATE

REVISIONS	BY	APPROVED	DATE

COORDINATE INDEX
N. E.
CONST. COMPL.
FIELD REVISIONS

CENTRAL AVENUE CHANNEL IMPROVEMENTS
ALTERNATIVE 1
PRELIMINARY ENGINEERING REPORT

SCALE: HOR.	VERT.
W.A. UJ1973	R.S.
FILE NO.	SHEET 4 OF 6 SHEETS



Alternative 4

Q=3,000 cfs

1. 78 ac-ft Detention Basin
Extensive Grading Required
2. 4 - 5' x 12' RCB Culverts
Road Construction
Traffic Control
Temp. Detour Road
3. 3 - 7' x 14' RCB Ext. into Channel
4. 66" RCP Extension into Channel
5. 45' Base Width Drainage Channel
Hydroseed
Channel Grading
Channel Matting
Rip-Rap
Water Lateral Replacement
Building Relocation
6. 3 - 93' Bridge Replacements
7. Parapet Wall (S. of Central Ave.)
8. 2 - Concrete Channel Transitions

PRELIMINARY ENGINEERING REPORT

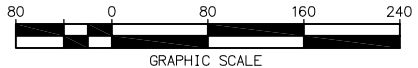
For
Central Avenue Channel Improvements
San Diego County, California
Central Ave. Creek Flood Protection

Legend

- Property Lot Lines
- Existing Creek Flow line



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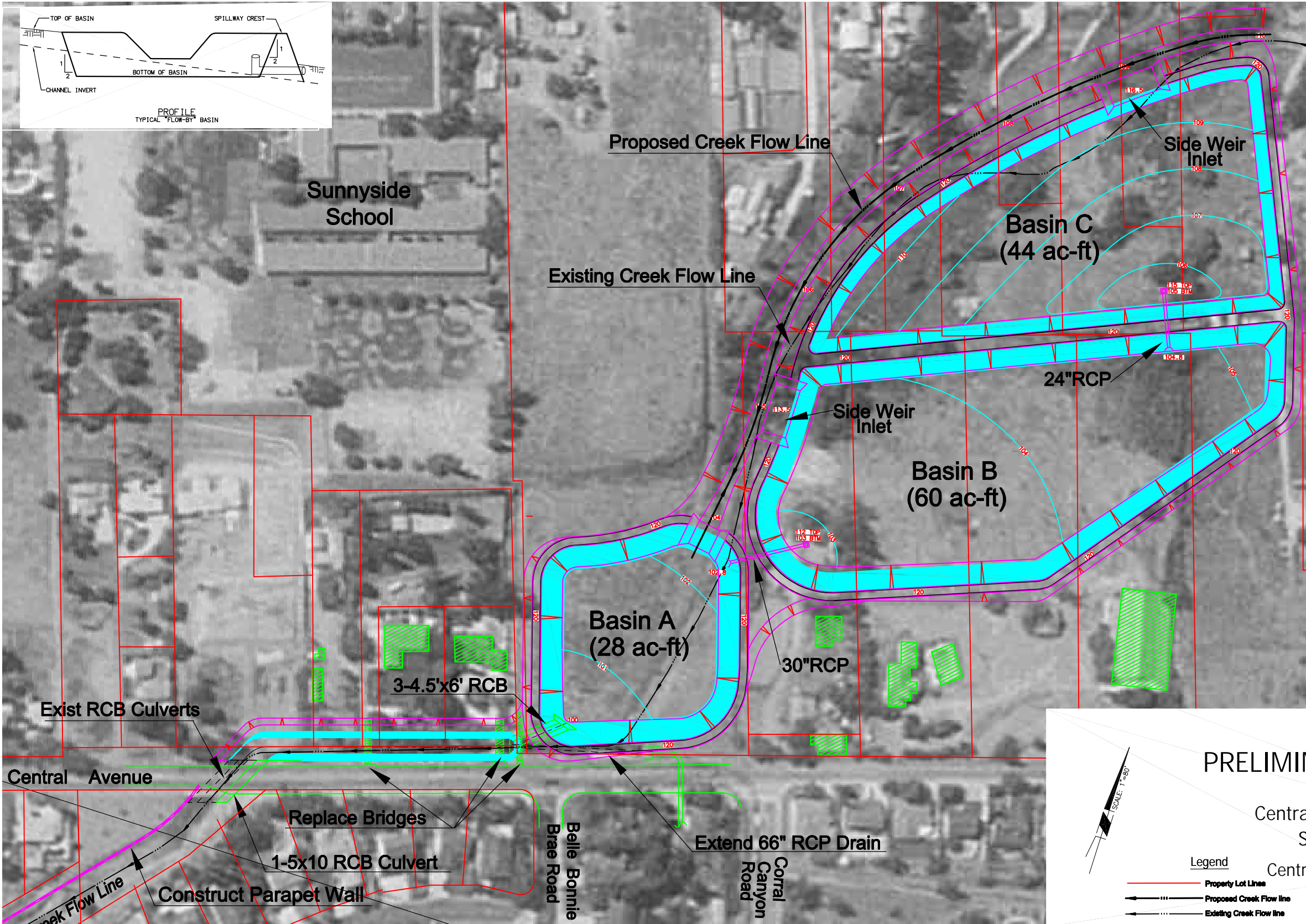
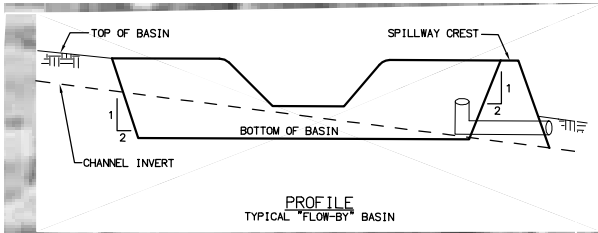
RECOMMENDED BY: _____ DATE _____
APPROVED BY: _____ DATE _____
DOUGLAS M. ISBELL, COUNTY ENGINEER R.C.E. 18634 (EXPIRES 6-30-01)

REVISIONS	BY	APPROVED	DATE

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CONST. COMPL. _____
FIELD REVISIONS _____

CENTRAL AVENUE CHANNEL IMPROVEMENTS
ALTERNATIVE 4
PRELIMINARY ENGINEERING REPORT

SCALE: HOR. _____ VERT. _____
W.A. UJ1973 R.S. _____
FILE NO. _____
SHEET 5 OF 6 SHEETS



Alternative 5

Q=1,800 cfs

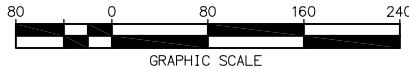
- 3 - Detention Basins
Extensive Grading Required
- 1 - 5' x 10' RCB Culverts
Road Construction
Traffic Control
Temp. Detour Road
- 3 - 4.5x6 RCB Ext. into Channel
- 66" RCP Extension into Channel
- 20' Base Width Drainage Channel
Hydroseed
Channel Grading
Channel Matting
Rip-Rap
Water Lateral Replacement
- 3 - 53' Bridge Replacements
- Parapet Wall (S. of Central Ave.)
- 2 - Concrete Channel Transition

PRELIMINARY ENGINEERING REPORT

For
Central Avenue Channel Improvements
San Diego County, California
Central Ave. Creek Flood Protection



- Legend
- Property Lot Lines
 - Proposed Creek Flow line
 - Existing Creek Flow line



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CENTRAL AVENUE CHANNEL IMPROVEMENTS
ALTERNATIVE 5
PRELIMINARY ENGINEERING REPORT

SCALE: HOR. _____ VERT. _____
W.A. UJ1973 R.S. _____
FILE NO. _____
SHEET 6 OF 6 SHEETS